

D1  
Cont.

an interface for transmitting packets of data over a network;  
a mechanism for [reordering packets] handling units of data received [from said host] based on a destination address of said packets before transmitting on said network in order to improve overall network operation and such that when the data is received at said destination, units of data have the same relationship as when received from the host.

B3  
Cont.

Sub  
E3

2. (Amended) The network adaptor driver according to claim 1 wherein said [reordering] handling is determined solely by the destination address of said packets[, said reordering transmitting a set number of packets over each queued destination address before transmitting the next set number of packets to said queued destination address].

Sub  
D3

3. (Amended) The network adaptor driver according to claim 1 wherein said [reordering] handling is determined partly by the destination address of said packets and partly by when a packet is received from said host so that packets are distributed over all destinations while minimizing the time to transmission from when a packet is received from the host for a given packet.

4. (Cancel)

5. (Cancel)

B4

Sub  
E4

6. (Amended) A method for maximizing network parallelism comprising:  
receiving data packets [from a host] in a first FIFO order;  
prior to transmitting said data packets, reordering packets of data [received from said host] based on a destination address of said packets, so that said packets are spread over a number of different network destination paths; and  
transmitting said packets [over a network].

7. (Amended) The method according to claim 6 wherein said reordering is determined solely by the destination address of said packets.

Sub B3 8. (Amended) The method according to claim 6 [7] wherein said reordering is determined partly by the destination address of said packets and partly by when a packet is received [from said host] so that packets are distributed over all destinations while minimizing the time to transmission from when a packet is received from the host for a given packet.

B4 Cont. Sub B1 9. The network adaptor driver according to claim 1 wherein said reordering is determined by a preset, nonadjustable scheme.

10. (Amended) The network adaptor driver according to claim 1 wherein said reordering is determined by a programmable scheme which [may take] takes into account differences in speed and performance paths to particular destinations to maximize network ~~parallelism.~~

PLEASE ADD THE FOLLOWING CLAIMS:

B8 --11. A network adaptor driver comprising:  
an interface for receiving data for a plurality of destinations;  
an interface for transmitting packets of data over a network;  
a mechanism for scheduling units of data received based on a destination address of said units before transmitting on said network in order to improve overall network operation and such that when the data is received at said destination, units of data have the same relationship as when received from the host.

Sub B2 12. The network adaptor driver according to claim 11 wherein said scheduling is determined partly by the destination address of said packets and partly by when a packet is received from said host so that packets are distributed over all destinations while minimizing the time to transmission from when a packet is received from the host for a given packet.

13. A multiple access network comprising: